

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,013,223 B1  
APPLICATION NO. : 10/671434  
DATED : March 14, 2006  
INVENTOR(S) : Zhang et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the title page, item [57]:

Abstract, page 1, line 8, after "pump" please delete "and/or a type" and insert --and/or the type-- therefor.

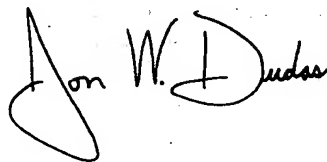
On the title page, item [56]:

Page 2, column 2, line 44, after "and" please delete "R. Due," and insert --R. Du,-- therefor.

Column 12, line 66, after "pressure" please delete "signal wavelet to" and insert --signal to-- therefor.

Signed and Sealed this

First Day of August, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*